



A Potent Force for
Economic Development in Iowa

IOWA Centers for Enterprise
Business & Commercialization Services





The University of Iowa - Proposal for Implementation of Battelle Recommendations

- 1. The hospitals and laboratories subsector is Iowa's largest bioscience subsector.*** The Iowa hospitals and laboratories subsector employed 41,882 in 2002. In particular, health centers perform clinical trials and collaborate with companies on research and development.
- 2. The drugs and pharmaceuticals subsector is the second fastest-growing bioscience subsector.*** Iowa experienced employment levels in drugs and pharmaceuticals over 2,500 across 44 establishments, surpassing the U.S. growth rate of 11.3 percent.

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The University of Iowa will invest the proposed tobacco settlement funds as follows:

- \$3.5 M/year for 3 years for human and physical infrastructure to support the creation of a **National Institutes of Health Clinical Translational Research Center** at The University of Iowa.
- To include facilities, equipment, scientific resources, and the attraction and retention of exceptional scholars and their research teams to generate commercializable innovations from these investments.



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The University of Iowa will invest the proposed tobacco settlement funds as follows:

Expansion of Technology Incubator Wet Lab Space



- \$6.5 M for **expansion of wet lab, biomedical incubator facilities and key infrastructure facilities** suited to the needs of fledgling bioscience/pharmaceutical-related companies.

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What is the NIH Clinical and Translational Science Award?

The National Institutes of Health is launching a new program designed to transform clinical and translational research.

Purpose: So new treatments can be developed more efficiently and delivered more quickly to patients.

Funding: NIH is awarding **\$500M/Year** for new centers

Clinical Research





Major goals of The University of Iowa **National Institutes of Health Clinical Translational Research Center**

- to stimulate the development of new entrepreneurial ventures between the University, biotechnology companies and communities across the State of Iowa.

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Major goals of The University of Iowa **National Institutes of Health Clinical Translational Research Center**

- to serve as a magnet that concentrates basic and clinical investigators, community clinicians, clinical practices, professional societies, and industry to **facilitate the development of new professional interactions, programs, and disease therapies.**



...working together to conquer cancer

The face of CANCER in IOWA





The outcome of this new initiative will be:

- create an incubator for innovative research tools and information technologies
- to synergize academic and community researchers to catalyze the application and commercialization of new knowledge and technologies to clinical practice at the front lines of patient care.

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National Genetics Testing Laboratory for Inherited Eye Diseases

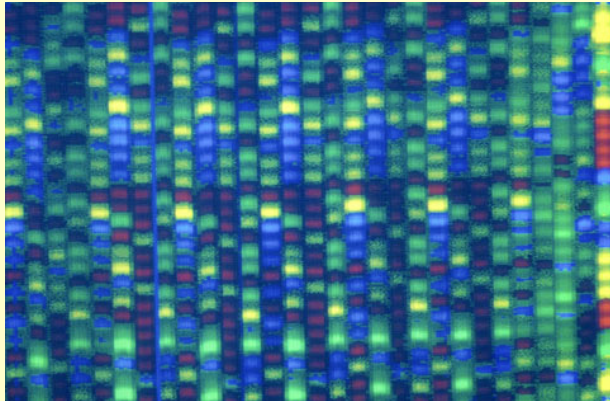


The creation of this laboratory, while allowing for cost-effective genetic testing for numerous eye disorders, will **create new opportunities for corporate partnerships** by the provision of well-characterized patient cohorts needed by the pharmaceutical industry for clinical trials of new pharmaceuticals.

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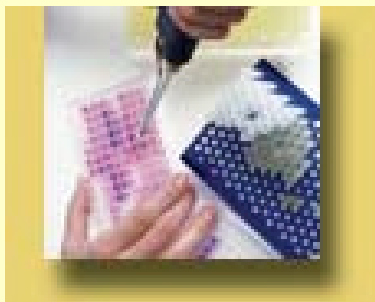
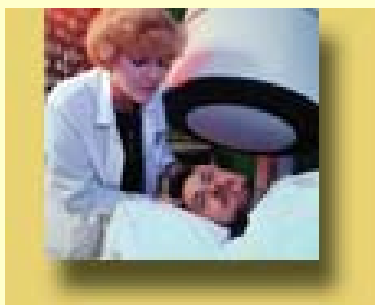
Bioinformatics for the Study of Human Diseases

In this project, The University of Iowa will **partner with a new Iowa company Bio::Neos** for the development of software to be utilized to electronically capture patient clinical data to be utilized in disease research projects. The implementation of this proposal will result in **job creation in computer software development and clinical based scientific research.**

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Molecularly Targeted Radiopeptide Therapy for Cancer

This project will work to commercialize therapies that will target cancers such as melanoma, carcinoid, and prostate in adults as well as neuroblastoma and brain tumors in children.

This is a unique opportunity to move a biotech company (BioSynthema) to Iowa

BioSynthema has the expertise to design and synthesize peptides for human therapeutic use.

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Drug Discovery and Development

This project will create a novel **public/private research** and development organization which will contract with scientists in Iowa's three Regents' universities to stimulate new product development and promote IP transfer for the benefit of Iowa in the human health field.

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Leveraging of Investment and Economic Impact on the State of Iowa

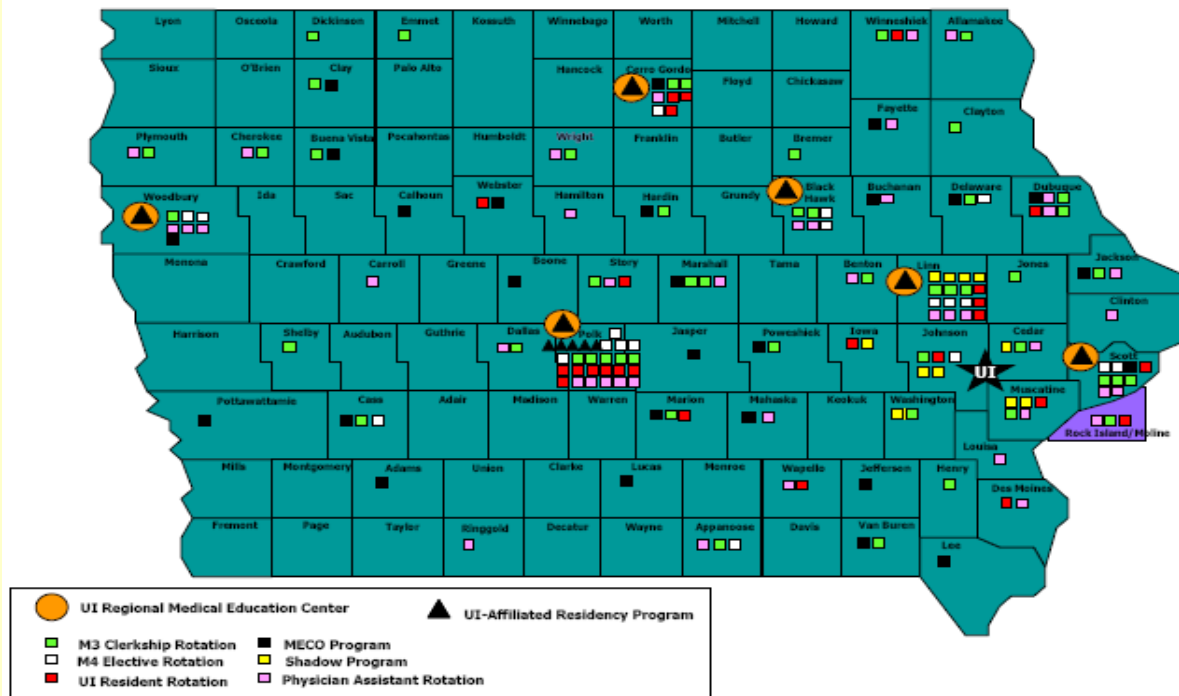
If UI is successful in its NIH application –

- The National Institutes of Health Clinical Translational Research Center will bring over **\$65M in federal dollars** to the State of Iowa over the next 5 years.
 - This is more than a **6 to 1 return on investment** for the State of Iowa.
- The development of the companies associated with the **National Institutes of Health Clinical Translational Research Center** is expected to bring over **\$100M** in direct investments over the next 5 years.

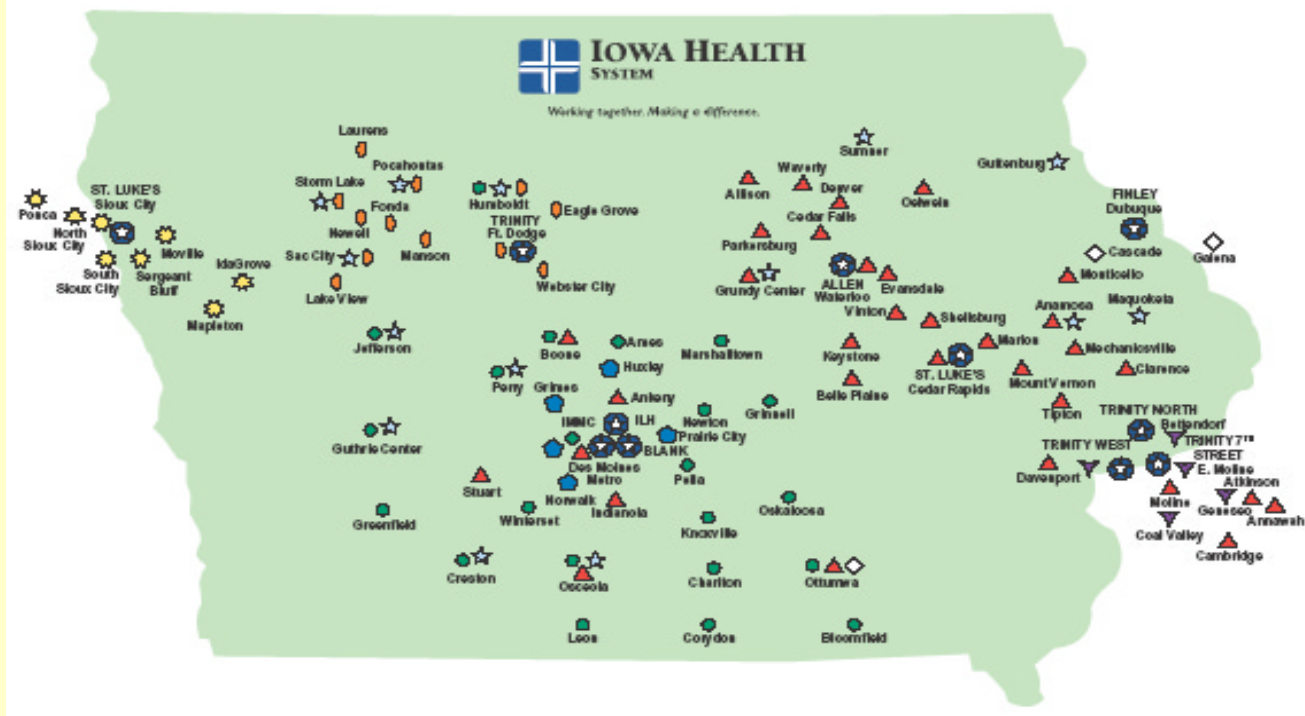
Impact on the State of Iowa

The UI Carver College of Medicine already has a very large education network across the State linking university physicians with community providers, primary care physicians and specialists (see map below)

UI STATEWIDE MEDICAL EDUCATION SYSTEM
Location of Educational Activities
2003-2004



It is our intent to link The UI Carver College of Medicine with community hospitals. The Iowa Health System operates facilities in seven large Iowa communities and Rock Island, Illinois, supports a system of rural hospitals in 14 Iowa communities and partners with physicians and clinics in more than 80 communities in Iowa, western Illinois and eastern Nebraska (see map below)



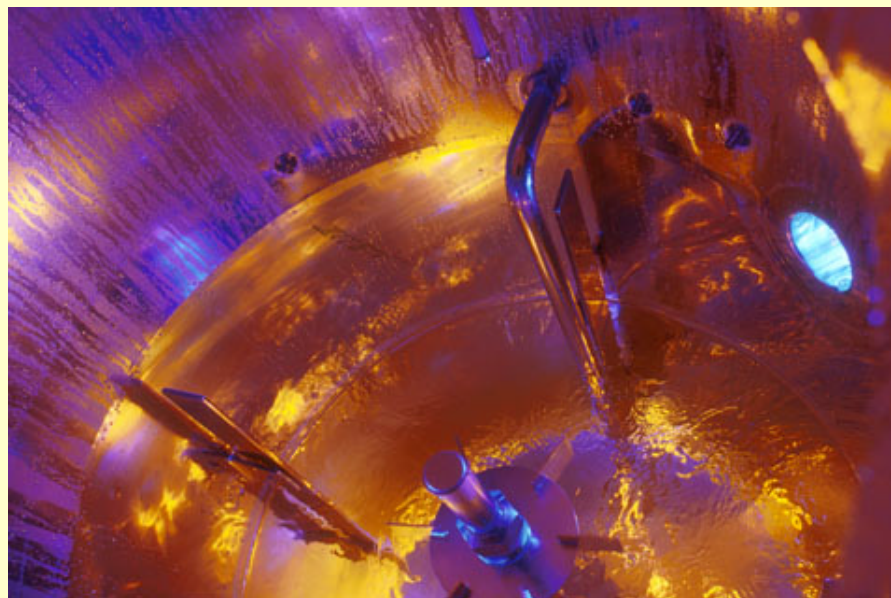


Impact on the State of Iowa

- Improve and enhance the state of clinical research and clinical trials in the State by building trust through community partnerships, with patients, and with community providers.
- Allow patients across the State of Iowa to have access to the most recent clinical trials and the most advanced protocols to treat diseases.
- Allow primary care providers and community specialists to play a role in clinical trials.
- Provide every citizen in the State of Iowa the opportunity to have access, in their own community, to the most advanced treatment available – presently only available in a few centers in the State.
- Make all communities in Iowa attractive to new business by making possible quality health care at a lower cost throughout the State.



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A view inside one of the fermentors at the Center for Biocatalysis and Bioprocessing

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